

Under the Paperwork Reduction act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>		<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="padding: 2px;">Attorney Docket No.</td><td style="padding: 2px;">14121US02</td></tr><tr><td style="padding: 2px;">First Inventor</td><td style="padding: 2px;">Chen</td></tr><tr><td style="padding: 2px;">Title</td><td style="padding: 2px;">FIRMWARE UPDATE NETWORK AND PROCESS EMPLOYING PREPROCESSING TECHNIQUES</td></tr><tr><td style="padding: 2px;">Express Mail Label No.</td><td style="padding: 2px;">EL 848969232 US</td></tr></table>	Attorney Docket No.	14121US02	First Inventor	Chen	Title	FIRMWARE UPDATE NETWORK AND PROCESS EMPLOYING PREPROCESSING TECHNIQUES	Express Mail Label No.	EL 848969232 US																																
Attorney Docket No.	14121US02																																									
First Inventor	Chen																																									
Title	FIRMWARE UPDATE NETWORK AND PROCESS EMPLOYING PREPROCESSING TECHNIQUES																																									
Express Mail Label No.	EL 848969232 US																																									
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 50%; padding: 2px;">APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i></td><td style="width: 50%; padding: 2px;">ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450</td></tr></table>		APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	22154 U.S. PTO 10/646324 08/22/03																																						
APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450																																									
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 50%; padding: 2px; vertical-align: top;"><div>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <i>(Submit an original and a duplicate for fee processing)</i></div><div>2. <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</div><div>3. <input checked="" type="checkbox"/> Specification [Total Pages <u>20</u>] <i>(preferred arrangement set forth below)</i> -Descriptive title of the invention -Cross Reference to Related Applications -Statement Regarding Fed sponsored R&D -Reference to sequence listing, a table, or a computer program listing appendix -Background of the Invention -Brief Description of the Drawings <i>(if filed)</i> -Detailed Description -Claim(s) -Abstract of the Disclosure</div><div>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>6</u>]</div><div>5. Oath or Declaration [Total Sheets <u> </u>] a. <input type="checkbox"/> Newly executed (fax copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>(for continuation/divisional with Box 18 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</div><div>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</div></td><td style="width: 50%; padding: 2px; vertical-align: top;"><div>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</div><div>8. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all necessary)</i> a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identity of above copies</div><div style="border: 1px solid black; padding: 2px;">ACCOMPANYING APPLICATION PARTS</div><div>9. <input type="checkbox"/> Assignment Papers (cover sheet & documents(s))</div><div>10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of <i>(when there is an assignee)</i> Attorney</div><div>11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i></div><div>12. <input type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Statement (IDS)/PTO-1449 Citations</div><div>13. <input type="checkbox"/> Preliminary Amendment</div><div>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i></div><div>15. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i></div><div>16. <input checked="" type="checkbox"/> Nonpublication Request under 35 U.S.C. 122(b) (2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.</div><div>17. <input type="checkbox"/> Other:</div></td></tr><tr><td colspan="3" style="padding: 2px;"><div>18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No.:</div><div>Prior application information: Examiner: _____ Art Unit: _____</div><div>For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation <u>can only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts.</div></td></tr><tr><td colspan="3" style="text-align: center; padding: 2px;">19. CORRESPONDENCE ADDRESS</td></tr><tr><td colspan="3" style="padding: 2px;"><div><input checked="" type="checkbox"/> Customer Number: 23446 OR <input type="checkbox"/> Correspondence address below</div></td></tr><tr><td colspan="3" style="padding: 2px;"><table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 20%;">Name</td><td colspan="3"></td></tr><tr><td>Address</td><td colspan="3"></td></tr><tr><td>City</td><td style="width: 20%;">State</td><td style="width: 20%;">Zip Code</td><td></td></tr><tr><td>Country</td><td>Telephone</td><td>Fax</td><td></td></tr></table></td></tr><tr><td colspan="3" style="padding: 2px;"><table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 40%;">Name (Print/type)</td><td style="width: 20%;">Kevin E. Borg</td><td style="width: 20%;">Registration No. (Attorney/Agent)</td><td style="width: 20%;">51,486</td></tr><tr><td>Signature</td><td></td><td>Date</td><td>August 22, 2003</td></tr></table></td></tr></table>		<div>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <i>(Submit an original and a duplicate for fee processing)</i></div> <div>2. <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</div> <div>3. <input checked="" type="checkbox"/> Specification [Total Pages <u>20</u>] <i>(preferred arrangement set forth below)</i> -Descriptive title of the invention -Cross Reference to Related Applications -Statement Regarding Fed sponsored R&D -Reference to sequence listing, a table, or a computer program listing appendix -Background of the Invention -Brief Description of the Drawings <i>(if filed)</i> -Detailed Description -Claim(s) -Abstract of the Disclosure</div> <div>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>6</u>]</div> <div>5. Oath or Declaration [Total Sheets <u> </u>] a. <input type="checkbox"/> Newly executed (fax copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>(for continuation/divisional with Box 18 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</div> <div>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</div>	<div>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</div> <div>8. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all necessary)</i> a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identity of above copies</div> <div style="border: 1px solid black; padding: 2px;">ACCOMPANYING APPLICATION PARTS</div> <div>9. <input type="checkbox"/> Assignment Papers (cover sheet & documents(s))</div> <div>10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of <i>(when there is an assignee)</i> Attorney</div> <div>11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i></div> <div>12. <input type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Statement (IDS)/PTO-1449 Citations</div> <div>13. <input type="checkbox"/> Preliminary Amendment</div> <div>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i></div> <div>15. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i></div> <div>16. <input checked="" type="checkbox"/> Nonpublication Request under 35 U.S.C. 122(b) (2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.</div> <div>17. <input type="checkbox"/> Other:</div>	<div>18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No.:</div> <div>Prior application information: Examiner: _____ Art Unit: _____</div> <div>For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation <u>can only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts.</div>			19. CORRESPONDENCE ADDRESS			<div><input checked="" type="checkbox"/> Customer Number: 23446 OR <input type="checkbox"/> Correspondence address below</div>			<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 20%;">Name</td><td colspan="3"></td></tr><tr><td>Address</td><td colspan="3"></td></tr><tr><td>City</td><td style="width: 20%;">State</td><td style="width: 20%;">Zip Code</td><td></td></tr><tr><td>Country</td><td>Telephone</td><td>Fax</td><td></td></tr></table>			Name				Address				City	State	Zip Code		Country	Telephone	Fax		<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 40%;">Name (Print/type)</td><td style="width: 20%;">Kevin E. Borg</td><td style="width: 20%;">Registration No. (Attorney/Agent)</td><td style="width: 20%;">51,486</td></tr><tr><td>Signature</td><td></td><td>Date</td><td>August 22, 2003</td></tr></table>			Name (Print/type)	Kevin E. Borg	Registration No. (Attorney/Agent)	51,486	Signature		Date	August 22, 2003
<div>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <i>(Submit an original and a duplicate for fee processing)</i></div> <div>2. <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</div> <div>3. <input checked="" type="checkbox"/> Specification [Total Pages <u>20</u>] <i>(preferred arrangement set forth below)</i> -Descriptive title of the invention -Cross Reference to Related Applications -Statement Regarding Fed sponsored R&D -Reference to sequence listing, a table, or a computer program listing appendix -Background of the Invention -Brief Description of the Drawings <i>(if filed)</i> -Detailed Description -Claim(s) -Abstract of the Disclosure</div> <div>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>6</u>]</div> <div>5. Oath or Declaration [Total Sheets <u> </u>] a. <input type="checkbox"/> Newly executed (fax copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>(for continuation/divisional with Box 18 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</div> <div>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</div>	<div>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</div> <div>8. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all necessary)</i> a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identity of above copies</div> <div style="border: 1px solid black; padding: 2px;">ACCOMPANYING APPLICATION PARTS</div> <div>9. <input type="checkbox"/> Assignment Papers (cover sheet & documents(s))</div> <div>10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of <i>(when there is an assignee)</i> Attorney</div> <div>11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i></div> <div>12. <input type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Statement (IDS)/PTO-1449 Citations</div> <div>13. <input type="checkbox"/> Preliminary Amendment</div> <div>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i></div> <div>15. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i></div> <div>16. <input checked="" type="checkbox"/> Nonpublication Request under 35 U.S.C. 122(b) (2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.</div> <div>17. <input type="checkbox"/> Other:</div>																																									
<div>18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No.:</div> <div>Prior application information: Examiner: _____ Art Unit: _____</div> <div>For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation <u>can only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts.</div>																																										
19. CORRESPONDENCE ADDRESS																																										
<div><input checked="" type="checkbox"/> Customer Number: 23446 OR <input type="checkbox"/> Correspondence address below</div>																																										
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 20%;">Name</td><td colspan="3"></td></tr><tr><td>Address</td><td colspan="3"></td></tr><tr><td>City</td><td style="width: 20%;">State</td><td style="width: 20%;">Zip Code</td><td></td></tr><tr><td>Country</td><td>Telephone</td><td>Fax</td><td></td></tr></table>			Name				Address				City	State	Zip Code		Country	Telephone	Fax																									
Name																																										
Address																																										
City	State	Zip Code																																								
Country	Telephone	Fax																																								
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 40%;">Name (Print/type)</td><td style="width: 20%;">Kevin E. Borg</td><td style="width: 20%;">Registration No. (Attorney/Agent)</td><td style="width: 20%;">51,486</td></tr><tr><td>Signature</td><td></td><td>Date</td><td>August 22, 2003</td></tr></table>			Name (Print/type)	Kevin E. Borg	Registration No. (Attorney/Agent)	51,486	Signature		Date	August 22, 2003																																
Name (Print/type)	Kevin E. Borg	Registration No. (Attorney/Agent)	51,486																																							
Signature		Date	August 22, 2003																																							

PTO/SB/17 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2003

Patent Fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$)**411.00**

Complete if Known

Application Number	unassigned
Filing Date	herewith
First Named Inventor	Chen
Examiner Name	unassigned
Group Art Unit	unassigned
Attorney Docket No.	14121US02

METHOD OF PAYMENT

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit
Account
Number
Deposit
Account
Name

13-0017

McAndrews Held & Malloy

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
☒ Applicant claims small entity status.
See 37 CFR 1.27

2. ☒ Payment Enclosed:
☒ Check ☐ Credit Card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid	
1001	750	2001	375	Utility filing Fee	375.00
1002	330	2002	165	Design filing Fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$)375.00****

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
24 - 20** =	4 x	9.00 =	36.00
Independent Claims 2 - 3** =	0 x	42.00 =	0.00
Multiple Dependent			0.00

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee Description
1202	18	2202	9
1201	84	2201	42
1203	280	2203	140
1204	84	2204	42
1205	18	2205	9

SUBTOTAL (2) (\$)36.00****

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

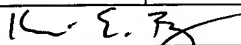
Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet
1053	130	1053	130	Non-English specification
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action
1251	110	2251	55	Extension for reply within first month
1252	410	2252	205	Extension for reply within second month
1253	930	2253	465	Extension for reply within third month
1254	1,450	2254	725	Extension for reply within fourth month
1255	1,970	2255	985	Extension for reply within fifth month
1401	320	2401	160	Notice of Appeal
1402	320	2402	160	Filing a brief in support of an appeal
1403	280	2403	140	Request for oral hearing
1451	1,510	1451	1510	Petition to institute a public use proceeding
1452	110	2452	55	Petition to revive - unavoidable
1453	1,300	2453	650	Petition to revive - unintentional
1501	1,300	2501	650	Utility issue fee (or reissue)
1502	470	2502	235	Design issue fee
1503	610	2503	315	Plant issue fee
1460	130	1460	130	Petitions to the Commissioner
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)
1806	180	1806	180	Submission of Information Disclosure Stmt
8021	40	8021	40	Recording each patent assignment per property (times number of properties)
1809	750	2809	375	Filing a submission after final rejection (37 CFR § 1.129(a))
1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))
1801	750	2801	375	Request for Continued Examination (RCE)
1802	900	1802	900	Request for expedited examination of a design application
Other fee (specify) _____				

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)0.00****

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Kevin E. Borg	Registration No. (Attorney or Agent)	51,486	Telephone	312 775 8000
Signature				Date	August 22, 2003

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

02527 U.S. PTO
08/22/03

**NONPUBLICATION REQUEST
UNDER
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor	SHAO-CHUN CHEN
Title	FIRMWARE UPDATE NETWORK AND PROCESS EMPLOYING PREPROCESSING ...
Atty Docket Number	14121US02

I hereby certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

AUGUST 22, 2003

Date

Signature

312 775 8000

Telephone number

KEVIN E. BORG

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**